Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
ANNUAL FACILITY INSPECTION REPORT
for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2019 To March, 2020

Permit No. ILR40 0332

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: CITY OF EAST ST. LOUIS Mailing Address 1: 613 N. 20TH STREET

Mailing Address 2: County: St. Clair

City: EAST ST. LOUIS State: IL Zip: 62201 Telephone: 618-482-6812

Contact Person: SAMUEL SWANSON Email Address: sswanson@cesl.us
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

ILLINOIS DEPARTMENT OF TRANSPORTATION
ST. CLAIR COUNTY
CENTREVILLE TOWNSHIP
CANTEEN TOWNSHIP

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

1. Public Education and Outreach ☐
2. Public Participation/Involvement ☐
3. Illicit Discharge Detection & Elimination ☐
4. Construction Site Runoff Control ☑
5. Post-Construction Runoff Control ☑
6. Pollution Prevention/Good Housekeeping ☑

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature: Date: 5/14/2020

Samuel Swanson Director

Printed Name: Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

IL 532 2585
WPC 691 Rev 6/10

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

ADMINISTRATIVE REVISIONS TO THE NOTICE OF INTENT

Revisions to the original Notice of Intent (NOI) are reflected below.

MS4 Operator Mailing Address: Yes _____ No X

Persons Responsible: Yes X No _____

Name: Samuel Swanson

Title: Director

Telephone Number: (618) 482-6812

Area of Responsibility: Public Works

Introduction

In 2003, St. Clair County (County), Illinois and its communities created a Co-Permittee Group to join forces in complying with the National Pollutant Discharge Elimination System (NPDES) for Municipal Separate Storm Sewer Systems (MS4) Phase II requirements. As stated in the original 2003 Notice of Intent (NOI), the County and the Co-Permittee communities were to pool resources and work together to comply with the commitments made within the NOI for the benefit of all within the County.

The Co-Permittee Group was active during this reporting period. Significant progress was made sharing Best Management Practices (BMPs) for document retention, operation procedures, and maintenance activities.

Best Management Practice (BMP) Summary of 2019-2020 Activities

In 2003, each member of the Co-Permittee Group submitted a NOI in compliance with the first 5-year cycle. In 2008, a NOI was submitted in compliance with the next 5-year cycle, as written in the first MS4 permit. The 2009 NOI was submitted in compliance with additional requirements in the second MS4 permit. In 2013, a new NOI was submitted for the next 5-year cycle and was in place starting in March 2014. As stated in the 2003, 2008, 2009, and 2013 NOIs, each Co-Permittee Member identified certain activities to comply with the Phase II requirements. Below is an abbreviated summary of the BMPs that were written in the NOI for each of the minimum control measures.

March 2019-February 2020:

1) **A.1-** Storm water brochures for businesses, homeowners, children, and green infrastructures were to be promoted and displayed by each community in a public place.

2) **A.4-** St. Clair County sponsored a booth at the County Fair and/or Earth Day and distributed the storm water and green infrastructure brochures.

3) **A.5-** St. Clair County posted newsletters on the County Health Department website during school months. Co-Permittee Members distributed educational materials to schools in their communities. The amount of material distributed was to be tracked by the communities.

4) **B.3-** The Co-Permittee Group met three (3) times to review upcoming permit requirements, notice of intent, review storm water management program, operations training, and to develop and submit the Annual Report.

5) **B.5-** Co-Permittee Members solicited and encouraged public assistance in monitoring the community's storm water system. Public inquiries and complaints were responded to and recorded.

6) **B.6-** St. Clair County continued to promote programs related to storm water activities and recycling programs. The community tracked its participation.

7) **C.1-** Co-Permittee Members updated any new or revised storm sewers and performed stream observations at bridge inspections.

8) **C.5-** A survey of previously installed stencils was to be performed as well as replacing or placing any that needed inlet stencils.

9) **C.6-** Communication brochures were distributed to the community. Co-Permittee Members discussed any known illicit discharge ordinance compliance issues in the communities.

10) **C.9-** Co-Permittee Members developed brochures addressing specific storm water ordinance prohibited activities and distributed with educational brochures.

11) **D.1, E.2, E.4-** Community storm water ordinances were to be updated, if needed, and require a SWPPP on site plans disturbing more than one acre.

12) **D.2, F.1-** The Co-Permittee held an Operations Training class. Topics included a review of the history of drainage systems, the Clean Water Act and NPDES permits, and the impacts of storm water.

13) **D.5-** St. Clair County continued to maintain a storm water hotline number to address public concerns related to storm water issues. County tracked and reported the number of calls.

14) **F.6-** Communities reviewed operating procedures and BMPs and modified if necessary.

The following pages highlight changes made to the BMPs from the NOI, BMP status, and activities planned for the next reporting year. Additional information is also provided from the County and each Community.

It is to be noted that some BMPs will continue on to the next NOI, but some will be stopped, and others added to fulfill the requirements of the permit. The 2014-2019 NOI can be found on the IEPA website.

City of East St. Louis FOIA Officer for the reporting year:

Name: Debra Hamilton-Tidwell

Title: City Clerk

Telephone Number: (618) 482-6812

COMMUNITY NAME: ***City of East St. Louis*** **PERMIT #:** ***ILR400332***

IEPA Annual Report for Storm Water Discharges from MS4 Communities- Period: March 2019 through February 2020

A. Changes to Best Management- Were there any changes to the BMPs?			**B.** The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	**C.** Provide results of information collected and analyzed, including monitoring data. Information attached?			**D. Summarize the storm water activities you plan to undertake with an implementation schedule**	
Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. A.1 - Distributed Paper Materials- Informational Brochures								
Milestone For Reporting Year: Promote the availability of brochures to the residents.								
		X	The City has brochures available to residents at the City Hall. Educational materials (150 brochures) were distributed at the public meeting held on February 13, 2020.			X	St. Clair County will have brochures available to all county residents at the Health Department.	Ongoing through 2020-2021 permit year.
BMP No. A.4- Community Event- Sponsor Annual Booth at St. Clair County Earth Day Festival								
Milestone For Reporting Year: St. Clair County sponsored a booth at the Earth Day Celebration.								
		X	St. Clair County sponsored a booth and distributed storm water materials at the Health Department Earth Day Celebration in April 2019. Approximately 100 storm water brochures were distributed.			X	St. Clair County is responsible for the booth and tracking the number of brochures handed out.	The 2020 Earth Day event will be in April.
BMP No. A.5- Classroom Education Material								
Milestone For Reporting Year: Communities distributed educational materials and tracked the number of brochures and other materials handed out to the schools.								
		X	St. Clair County posted educational newsletters on the Health Department's Website. East St. Louis distributed 150 educational brochures at a public town hall meeting.	Review of Classroom Education Materials- See page 11	X		The communities will inform local schools that the newsletters are available on the Health Department's Website.	Ongoing through 2020-2021 permit year.

COMMUNITY NAME: *City of East St. Louis* **PERMIT #:** *ILR400332*

IEPA Annual Report for Storm Water Discharges from MS4 Communities- Period: March 2019 through February 2020

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Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. B-3- Stakeholder's Meeting- Coordinate Meetings and Annual Reports								
Milestone For Reporting Year: Co-Permittee Group met three (3) times to complete training and to develop and submit the Annual Report.								
		X	Co-Permittee Meetings were held on Feb. 28th, May 2nd, and October 31st, 2019. Annual reports were provided to communities in May 2019 and submitted to IEPA before June 1st, 2019. Meeting topics included: Annual Reporting and O&M Manuals, Reducing Road Salt Use and Visual Water Sampling Training, and Operations Training. City representatives attended two of the three meetings.			X	The City will continue to meet with the Co-Permittee Group to share BMPs and training opportunities. The Co-Permittee Group has planned three compliance/training activities for 2020.	Ongoing through 2020-2021 permit year.
BMP No. B-5- Volunteer Monitoring- Solicit and Encourage Public Assistance in Monitoring the Community's Storm Water System & Storm Water Hotline								
Milestone For Reporting Year: Community will work to involve more public assistance in reporting storm water issues.								
		X	The County updated its Website with the contact information for the reporting of storm water issues. Any calls or emails are recorded and addressed.			X	The community will continue to respond to and record all public complaints of illicit discharge and/or dumping and storm water issues.	Ongoing through 2020-2021 permit year.
BMP No. B.6- Program Coordination- Participate in programs targeted at public awareness, including: Inlet Stenciling and Recycling								
Milestone for Reporting Year: St. Clair County continued to promote programs related to storm water activities. Communities tracked participation.								
		X	County will continue to promote programs related to storm water activities and recycling. Multiple media outlets will be used to communicate with municipalities.	Review of Community Events - See page 11	X		County will continue to promote programs related to storm water activities. Multiple media outlets will be used to communicate with municipalities.	Ongoing through 2020-2021 permit year.

COMMUNITY NAME: *City of East St. Louis* **PERMIT #:** *ILR400332*

IEPA Annual Report for Storm Water Discharges from MS4 Communities- Period: March 2019 through February 2020

A. Changes to Best Management- Were there any changes to the BMPs?			**B.** The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	**C.** Provide results of information collected and analyzed, including monitoring data. Information attached?			**D. Summarize the storm water activities you plan to undertake with an implementation schedule**	
Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. B.7- Other Public Involvement - the community will provide a public meeting annually for public input into for the MS4 program								
Milestone for Reporting Year: The communities will provide a public meeting annually for public input for the MS4 program.								
		X	The City of East St. Louis held a public input meeting regarding the adequacy of the MS4 Program on February 13, 2020. No public input was received.	Review of Other Public Involvement - See page 11	X		Community will continue to hold a public meeting to solicit public input regarding the adequacy of the MS4 program.	Ongoing through 2020-2021 permit year.
BMP No. C.1- Storm Sewer Map Preparation								
Milestone for Reporting Year: Co-Permittee member communities reviewed outfall maps and conducted stream observations annually at bridge inspections.								
		X	Co-Permittee communities reviewed their outfall maps for completeness and updated them if necessary. East St. Louis currently has 100% of outfall locations mapped. The storm sewer system map was last updated in 2018.			X	Communities will continue to update their storm system maps to include modifications to the system.	Ongoing through 2020-2021 permit year.
BMPs No. C.2, C.9- Regulatory Control Program- Ordinance language for Illicit discharge/public notification								
Milestone for Reporting Year: Communication brochures were distributed to the community.								
		X	St. Clair County distributed illicit discharge brochures at the Earth Day event and has them available at the Health Department.			X	This BMP will not continue into the next NOI.	
BMP No. C.5- Inlet Stenciling								
Milestone for Reporting Year: Survey condition of inlet stencils.								
		X	The Community assessed the condition of the stencils. Replacement stencils were ordered in 2019 through an MS4 Co-Permittee group order.	Review of Illicit Source Removal Procedures - See page 11	X		Communities will survey samples of stencils previously installed, replace ones that need to be replaced, and assure all new inlets are installed with stencils.	Ongoing through 2020-2021 permit year.

COMMUNITY NAME: *City of East St. Louis* **PERMIT #:** *ILR400332*

IEPA Annual Report for Storm Water Discharges from MS4 Communities- Period: March 2019 through February 2020

A. Changes to Best Management- Were there any changes to the BMPs?			**B.** The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	**C.** Provide results of information collected and analyzed, including monitoring data. Information attached?			**D. Summarize the storm water activities you plan to undertake with an implementation schedule**	
Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. C.6- Program Evaluation and Assessment								
Milestone for Reporting Year: Perform illicit discharge detection and elimination in the Community's storm water system.								
		X	Communities will perform stream observations during their annual bridge inspections and take appropriate action if any illicit discharge is found.			X	Communities will continue to perform stream observations and address illicit discharge per the community ordinance.	Ongoing through 2020-2021 permit year.
BMP No. C.9- Public Notification								
Milestone for Reporting Year: Community will update ordinance brochure as needed.								
		X	Brochures will be updated to address specific storm water ordinance prohibited activities and distributed with brochures addressed in BMP A1.			X	Ordinance brochures will be updated and distributed to the community throughout years 2015-2020	Brochure to be updated in 2020-2021 reporting year.
BMPs No. D.1, E.2, and E.4- Site Plan and Pre-Construction Review Procedures								
Milestone for Reporting Year: Update storm water ordinance.								
		X	A storm water ordinance update was not needed.			X	This BMP will not continue into the next NOI.	
BMP No. D.1- Regulatory Control Program								
Milestone for Reporting Year: Require SWPPP on all site plans disturbing more than one acre of land inside the Community.								
		X	The community will require SWPPP on sites disturbing over 1 acre and adopt/enforce ordinance provisions.			X	The community will require SWPPP on sites disturbing over 1 acre and verify the proper use of sediment and erosion control techniques.	Ongoing through 2020-2021 permit year.

COMMUNITY NAME: *City of East St. Louis* **PERMIT #:** *ILR400332*

IEPA Annual Report for Storm Water Discharges from MS4 Communities- Period: March 2019 through February 2020

A. Changes to Best Management- Were there any changes to the BMPs?			**B.** The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	**C.** Provide results of information collected and analyzed, including monitoring data. Information attached?			**D. Summarize the storm water activities you plan to undertake with an implementation schedule**	
Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. D.2- Erosion and Sediment Control BMPs								
Milestone for Reporting Year: Community will participate in BMP training during Annual Operations Training.								
		X	City representatives were unable to attend BMP training during the Annual Operations Training on October 31, 2019. An information packet was emailed to City representatives.			X	Community will continue to participate in BMP training.	Ongoing through 2020-2021 permit year.
BMP No. D.5- Storm Water Hotline								
Milestone for Reporting Year: County continued to maintain a storm water hotline number to address public concerns related to storm water issues. County tracked and reported the number of calls.								
		X	St. Clair County maintained the hotline number during the reporting period. Communities respond to complaints of residents for storm-water-related issues.			X	County and Communities will respond to calls and emails for storm water issues.	Ongoing through 2020-2021 permit year.
BMPs No. D.6 and E.5- Training for Construction Site Inspectors								
Milestone for Reporting Year: Construction Site Inspection training was provided this year.								
		X	No construction site inspection training was needed.			X	The last Construction Site Inspection training took place in April 2017. This BMP will not continue into the next NOI.	
BMP No. E.2- Regulatory Control Program								
Milestone for Reporting Year: Enforce Storm Water Ordinance.								
		X	Communities will continue to enforce their storm water ordinance and track changes made to the ordinance. The City had no changes this year.			X	Communities will continue to enforce their storm water ordinance.	Ongoing through 2020-2021 permit year.

COMMUNITY NAME: *City of East St. Louis* **PERMIT #:** *ILR400332*

IEPA Annual Report for Storm Water Discharges from MS4 Communities- Period: March 2019 through February 2020

A. Changes to Best Management- Were there any changes to the BMPs?			**B.** The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	**C.** Provide results of information collected and analyzed, including monitoring data. Information attached?			**D. Summarize the storm water activities you plan to undertake with an implementation schedule**	
Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. E.4- Pre-Construction Review of BMP Designs								
Milestone for Reporting Year: Review post-construction BMPs.								
		X	The community will require and review SWPPPs on site plans disturbing more than one (1) acre of land.			X	Communities will review the post-construction BMPs on all sites that disturb more than one acre in land.	Ongoing through 2020-2021 permit year.
BMP No. F.1- Employee Training Program								
Milestone for Reporting Year: The Co-Permittee held an Operations Training class.								
		X	Training focused on a review of the history of drainage systems, the Clean Water Act and NPDES permits, and the impacts of storm water. City representatives were unable to attend operations training, but materials were emailed to them.			X	The Co-Permittee Group will continue holding an Operations Training class as part of education requirements.	Ongoing through 2020-2021 permit year.
BMP No. F.6- Other Municipal Operations Controls- Standard Operating Procedures								
Milestone for Reporting Year: Communities reviewed operating procedures and BMPs and modified if necessary.								
		X	Storm water operation procedures for the street department were reviewed and modified as necessary.			X	Operation procedures are reviewed annually. Co-Permittee meetings will include reference to review and update requirements.	Ongoing through 2020-2021 permit year.

COMMUNITY NAME: *City of East St. Louis* **PERMIT #:** *ILR400332*

IEPA Annual Report for Storm Water Discharges from MS4 Communities- Period: March 2019 through February 2020

ADDITIONAL INFORMATION

BMP A.5	**Classroom Educational Materials**
	The County has taken steps to educate school children on the severity of storm water pollution. The St. Clair County Health Department issues a newsletter each month and it is posted on the St. Clair County Health Department's Website. The newsletter consists of articles for students with a wide range of pollution topics, including storm water. The newsletter also lists upcoming recycling events and schools that have won past recycling contests.

BMP B.6	**Community Events - Recycling Programs**
	Throughout the year, St. Clair County sponsored community events that potentially could positively impact storm water quality. These activities include telephone book recycling and an ongoing "Clean Sweep" program. Telephone book recycling was sponsored by Illinois American Water. The county Website also has a brochure listing recycling sites for over 29 different materials. East St. Louis participated in the IEPA "Government Only" tire recycling event on September 19, 2019, delivering 100 tons of tires.

BMP B.7	**Other Public Involvement**
	The City of East St. Louis held a town hall meeting to invite public input regarding the adequacy of the MS4 program on February 13, 2020. No feedback regarding the MS4 program or Environmental Justice was received. The public is encouraged to assist in monitoring the community's storm water system by reporting illegal dumping and discharge or storm water issues either directly to the City or through the County. The St. Clair County storm water hotline number is posted on the Website and is provided in educational brochures.

BMP C.5	**Illicit Source Removal Procedures**
	The St. Clair County Highway Department sponsors an Adopt-a-Highway Program throughout the County. By sponsoring this program, St. Clair County is eliminating a significant source of storm water pollution by keeping trash out of streams and keeping road ditches clear of debris for storm events.

ADDITIONAL COMMUNITY ACTIVITIES

(Make additional copies of form, as necessary)

Community Name: **City of East St. Louis** Permit #: **ILR400332**

List any additional community-sponsored activities performed between March 2019 and February 2020 not listed in *Notice of Intent (NOI)* submittal, but which addresses one of the six minimum control measures:

The City cleaned between 300 and 400 catch basins during March 2019 - February 2020. (Some were cleaned more than twice.)

A three-cubic yard dumpster is used by the City for trash retrieved from road ditches and waterways that is emptied weekly.

East St. Louis estimated that 80 hours were spent street sweeping an estimated 200 miles of roadways during the reporting year.

Approximately 100 tons of tires were recycled during the IEPA-sponsored "Government Only" tire recycling event held on September 19, 2019.

Circle which minimum control measure addressed:

1. Public Education and Outreach
2. Public Participation/Involvement
3. Illicit Discharge Detection & Elimination
4. Construction Site Runoff Control
5. Post-Construction Runoff Control
6. Pollution Prevention/Good Housekeeping

C. Information Collected and Analyzed during 2019-2020 Reporting Year

The NPDES permit effective March 1, 2016, requires MS4 permittees serving populations over 25,000 persons to conduct quarterly laboratory testing of storm water discharge. East St. Louis began storm water sampling during the first quarter of 2017. The samples were taken to a local accredited laboratory and tested for Fecal Coliform, Oil & Grease, Total Nitrogen, Total Phosphorous, Total Suspended Solids, and Chloride. The laboratory returned a reporting package that contains laboratory results and chain of custody forms in addition to standard report contents.

The City identified two locations for sampling each quarter within 48 hours of a ¼-inch-or-greater rainfall event in a 24-hour period. If a sample cannot be taken during the quarter, an explanation will be provided. The storm water monitoring program will help evaluate the effectiveness of BMPs implemented to reduce pollutant loadings and water quality impacts. When trends in the data are identified, BMPs can be adjusted accordingly.

The laboratory reporting forms and information collected are attached. Sampling outfall locations for the reporting year were:

- Landsdowne Creek Access located at North 32nd Street between North Park Drive and Morris Avenue
- Schoenberger Creek Access located at North 79th Street between St. Clair Avenue and Church Lane

E. Reliance on Government Entities for Permit Obligations

Co-Permittee cooperation with County

F. List of Construction Projects during 2019-2020 Reporting Year

East St. Louis had no public construction projects during the reporting year

CITY OF EAST ST. LOUIS ILLINOIS
DEPARTMENT OF PUBLIC WORKS

SPECIAL
PROVISION FOR

Drainage
Improvements 17th to
19th Streets

STANDARD
SPECIFICATIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted April 1, 2016. Standard testing procedures and construction of this project shall be in accordance with the Standard Specifications for Water and Sewer Main Construction in Illinois. Traffic control shall be in accordance with the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways". Erosion control shall adhere with design criteria outlined in the "Illinois Urban Manual" current Edition. The "Manual of Test Procedures for Materials" in effect on the date of invitation for bid. Construction of sewers shall be in accordance with the Illinois Recommended Standards for Sewer Works, latest edition, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein which apply to and govern the construction designated as the City of East St. Louis, Section RFB 19-04 and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

1. **DESCRIPTION OF WORK**:

The proposed improvements consist of the removal and replacement of storm sewer pipe, sidewalk, curb and gutter, roadway pavement, inlets, and manholes. The project also consists of placement high density polyethylene pipe. All new sewer pipe shall be Water Quality Pipe shall have non-infiltration/exfiltration joints. Manhole lids shall be watertight and have lift holes one (1) inch diameter or less. Portions of the pavement shall be milled and overlaid as shown on plans. Also, included as a major item is the placement of a pavement patch up the centerline of the roadway. The pavement patch shall consist of 8-inches of plain concrete base and 2-inches of asphalt surface course. along with all appurtenant construction thereto.

2. **TRAFFIC CONTROL PLAN:**

Traffic control shall be according to the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways,

January 30, 2019

Jennifer Gerwitz
RJN Group
2000 South 8th St.
St. Louis, MO 63104
TEL: (314) 588-9764
FAX:

RE: NPDES/15-3069 ESTL **WorkOrder:** 19011341

Dear Jennifer Gerwitz:

TEKLAB, INC received 2 samples on 1/24/2019 9:51:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19011341
Report Date: 30-Jan-2019

This reporting package includes the following:

Client: RJN Group **Work Order:** 19011341

Client Project: NPDES/15-3069 ESTL **Report Date:** 30-Jan-2019

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon
B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit
E -	Value above quantitation range
H -	Holding times exceeded
I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits
M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit
R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits
T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19011341
Report Date: 30-Jan-2019

Cooler Receipt Temp: 1.22 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: RJN Group **Work Order:** 19011341

Client Project: NPDES/15-3069 ESTL **Report Date:** 30-Jan-2019

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2019	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2019	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2019	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2019	Collinsville
Arkansas	ADEQ	88-0966		3/14/2019	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		2/28/2019	Collinsville
Kentucky	KDEP	98006		12/31/2019	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA016		12/31/2019	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville

Client: RJN Group
Work Order: 19011341
Client Project: NPDES/15-3069 ESTL
Report Date: 30-Jan-2019
Lab ID: 19011341-001
Client Sample ID: Landsdowne
Matrix: AQUEOUS
Collection Date: 01/24/2019 8:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	10		**< 10**	CFU/100ml	10	01/24/2019 12:57	R257382
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	01/25/2019 12:09	R257426
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**4.45**	mg/L	1	01/28/2019 0:00	R257429
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.500		**0.550**	mg/L	1	01/25/2019 11:23	149779
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**37**	mg/L	1	01/24/2019 13:48	R257347
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	5		**30**	mg/L	1	01/25/2019 18:15	R257461

Client: RJN Group
Work Order: 19011341
Client Project: NPDES/15-3069 ESTL
Report Date: 30-Jan-2019
Lab ID: 19011341-002
Client Sample ID: Schoenberger
Matrix: AQUEOUS
Collection Date: 01/24/2019 8:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	10		**250**	CFU/100ml	10	01/24/2019 12:57	R257382
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	01/25/2019 12:09	R257426
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**2.02**	mg/L	1	01/25/2019 0:00	R257383
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**0.229**	mg/L	1	01/25/2019 11:26	149779
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**53**	mg/L	1	01/24/2019 13:48	R257347
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	10		**91**	mg/L	2	01/25/2019 19:40	R257461

Receiving Check List

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19011341
Report Date: 30-Jan-2019

Carrier: Sanjiv Vajjala

Received By: MEK

Completed by: Mary E. Kemp
On: 24-Jan-2019

Reviewed by: Elizabeth A. Hurley
On: 24-Jan-2019

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 1.22
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. ____ of ____ Work order # 19011341

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	RJN Group
Address:	2000 South 8th St.
City / State / Zip	St. Louis, MO 63104
Contact:	Jennifer Gerwitz
Phone:	(314) 588-9764
E-Mail:	jgerwitz@rjnmail.com
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 1.22 °C

Preserved in: ☐ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes: GM 1/24/19

Client Comments

rainfall 0.85"

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
NPDES/15-3069 ESTL	SANJIV VAJJALA

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	H2SO4	Na2S2O3	MATRIX: Aqueous	Chloride	Fecal Coliform	Oil and Grease	Phosphorus	Total Nitrogen	TSS
19011341-001	Landsdowne	01-24-19 8:10 AM	1	2	1	X	X	X	X	X	X	X
002	Schoenberger	01-24-19 8:30 AM	1	2	1	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Sanjiv Vajjala	1/24/19 9:51	Mary Kemp	1/24/19 9:51

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 47974

May 03, 2019

Jennifer Gerwitz
RJN Group
2000 South 8th St.
St. Louis, MO 63104
TEL: (314) 588-9764
FAX:

RE: NPDES/15-3069 ESTL **WorkOrder:** 19041665

Dear Jennifer Gerwitz:

TEKLAB, INC received 2 samples on 4/24/2019 1:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19041665
Report Date: 03-May-2019

This reporting package includes the following:

Client: RJN Group **Work Order:** 19041665

Client Project: NPDES/15-3069 ESTL **Report Date:** 03-May-2019

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit	E -	Value above quantitation range
H -	Holding times exceeded	I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits	M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit	R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits	T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level		

Case Narrative

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19041665
Report Date: 03-May-2019

Cooler Receipt Temp: 12.82 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: RJN Group **Work Order:** 19041665

Client Project: NPDES/15-3069 ESTL **Report Date:** 03-May-2019

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2020	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2019	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2019	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2019	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2019	Collinsville
Arkansas	ADEQ	88-0966		3/14/2020	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2020	Collinsville
Kentucky	KDEP	98006		12/31/2019	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA016		12/31/2019	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville

Client: RJN Group
Work Order: 19041665
Client Project: NPDES/15-3069 ESTL
Report Date: 03-May-2019
Lab ID: 19041665-001
Client Sample ID: Landsdowne
Matrix: AQUEOUS
Collection Date: 04/24/2019 10:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**9200**	CFU/100ml	100	04/24/2019 15:42	R261002
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/30/2019 13:29	R261232
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**2.30**	mg/L	1	04/26/2019 0:00	R261065
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**0.300**	mg/L	1	04/26/2019 12:26	152638
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6	R	**18**	mg/L	1	04/29/2019 11:54	R261160
Sample and Duplicate RPD meet the SOP QC criteria for low level results. Data is reportable.								
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	5		**30**	mg/L	1	05/01/2019 11:50	R261362

Client: RJN Group
Work Order: 19041665
Client Project: NPDES/15-3069 ESTL
Report Date: 03-May-2019
Lab ID: 19041665-002
Client Sample ID: Schoenberger
Matrix: AQUEOUS
Collection Date: 04/24/2019 11:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**2900**	CFU/100ml	100	04/24/2019 15:42	R261002
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/30/2019 13:29	R261232
Sample results may be low biased due to residue retained in jar after final hexane rinse.								
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**2.43**	mg/L	1	04/26/2019 0:00	R261065
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**0.453**	mg/L	1	04/26/2019 12:28	152638
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	16		**229**	mg/L	2.63	04/30/2019 11:12	R261225
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	10		**92**	mg/L	2	05/01/2019 11:52	R261362

Receiving Check List

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19041665
Report Date: 03-May-2019

Carrier: Employee

Received By: MEK

Completed by: Amber M. Dilallo
On: 24-Apr-2019

Reviewed by: Elizabeth A. Hurley
On: 24-Apr-2019

Pages to follow: Chain of custody [1] Extra pages included [0]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	12.82	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. ____ of ____ Work order # 1904L605

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	RJN Group		
Address:	2000 South 8th St.		
City / State / Zip	St. Louis, MO 63104		
Contact:	Jennifer Gerwitz	**Phone:**	(314) 588-9764
E-Mail:	jgerwitz@rjnmail.com	**Fax:**	

Samples on: ☑ ICE ☐ BLUE ICE ☐ NO ICE 1.2 82 °C

Preserved in: ☐ LAB ☒ FIELD

Lab Notes: EMO 4/24/19

FOR LAB USE ONLY

Client Comments

0.53" NOAA (Scott AFB)

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
NPDES/15-3069 ESTL	

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	H2SO4	Na2S2O3	MATRIX: Aqueous	Chloride	Fecal Coliform	Oil and Grease	Phosphorus	Total Nitrogen	TSS
1904L605 001	Landsdowne	4/24/19 10:51	1	2	1	X	X	X	X	X	X	X
002	Schoenberger	4/24/19 11:13	1	2	1	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
		Mary Thump	4/24/19 1:20pm

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 49587

19 4/24/19

July 22, 2019

Jennifer Gerwitz
RJN Group
2000 South 8th St.
St. Louis, MO 63104
TEL: (314) 588-9764
FAX:

RE: NPDES/15-3069 ESTL **WorkOrder:** 19071005

Dear Jennifer Gerwitz:

TEKLAB, INC received 2 samples on 7/16/2019 11:26:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19071005
Report Date: 22-Jul-2019

This reporting package includes the following:

Client: RJN Group **Work Order:** 19071005

Client Project: NPDES/15-3069 ESTL **Report Date:** 22-Jul-2019

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit	E -	Value above quantitation range
H -	Holding times exceeded	I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits	M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit	R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits	T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level		

Case Narrative

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19071005
Report Date: 22-Jul-2019

Cooler Receipt Temp: 15.2 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: RJN Group **Work Order:** 19071005

Client Project: NPDES/15-3069 ESTL **Report Date:** 22-Jul-2019

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2020	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2020	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2020	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2020	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2019	Collinsville
Arkansas	ADEQ	88-0966		3/14/2020	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2020	Collinsville
Kentucky	KDEP	98006		12/31/2019	Collinsville
Kentucky	UST	0073		1/31/2020	Collinsville
Louisiana	LDPH	LA016		12/31/2019	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Tennessee	TDEC	04905		1/31/2020	Collinsville

Client: RJN Group
Work Order: 19071005
Client Project: NPDES/15-3069 ESTL
Report Date: 22-Jul-2019
Lab ID: 19071005-001
Client Sample ID: Landsdowne
Matrix: AQUEOUS
Collection Date: 07/16/2019 8:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**9700**	CFU/100ml	100	07/16/2019 14:56	R264428
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	07/19/2019 10:05	R264583
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**2.98**	mg/L	1	07/18/2019 0:00	R264488
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**0.467**	mg/L	1	07/18/2019 11:43	155439
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**< 6**	mg/L	1	07/18/2019 16:10	R264505
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	8		**32**	mg/L	2	07/18/2019 16:31	R264518

Client: RJN Group
Work Order: 19071005
Client Project: NPDES/15-3069 ESTL
Report Date: 22-Jul-2019
Lab ID: 19071005-002
Client Sample ID: Schoenberger
Matrix: AQUEOUS
Collection Date: 07/16/2019 9:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**3000**	CFU/100ml	100	07/16/2019 14:56	R264428
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	07/19/2019 10:05	R264583
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**2.28**	mg/L	1	07/18/2019 0:00	R264488
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**0.302**	mg/L	1	07/18/2019 11:45	155439
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**21**	mg/L	1	07/18/2019 16:10	R264505
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	8		**63**	mg/L	2	07/17/2019 14:38	R264470

Receiving Check List

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19071005
Report Date: 22-Jul-2019

Carrier: Employee

Received By: AMD

Completed by: Amber M. Dilallo
On: 16-Jul-2019

Reviewed by: Elizabeth A. Hurley
On: 16-Jul-2019

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 15.2
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☐	No ☑		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY pg. ____ of ____ Work order # 1907005

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	RJN Group		
Address:	2000 South 8th St.		
City / State / Zip	St. Louis, MO 63104		
Contact:	Jennifer Gerwitz	**Phone:**	(314) 588-9764
E-Mail:	jgerwitz@rjnmail.com	**Fax:**	x 1505

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE 1.2 °C CTG1
Preserved In: ☒ LAB ☒ FIELD
Lab Notes: T
FOR LAB USE ONLY

Client Comments

NOAA 0.64" on 7/15/19

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
NPDES/15-3069 ESTL	

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	H2SO4	Na2S2O3	MATRIX: Aqueous	Chloride	Fecal Coliform	Oil and Grease	Phosphorus	Total Nitrogen	TSS
1907005 001	Landsdowne	7/16/19 8:47AM	1	2	1	X	X	X	X	X	X	X
002	Schoenberger	7/16/19 9:07AM	1	2	1	X	X	X	X	X	X	X

Courier

Relinquished By	Date/Time	Received By	Date/Time
Kevin Madden	7/16/19 11:26AM	[signature] TE EMM	7/16/19 1126
Anthony Hale	7/16/19 11:26	7/16/19	~~7-16-19 1155~~

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 51608

October 28, 2019

Jennifer Gerwitz
RJN Group
2000 South 8th St.
St. Louis, MO 63104
TEL: (314) 588-9764
FAX:

RE: NPDES/15-3069 ESTL **WorkOrder:** 19101437

Dear Jennifer Gerwitz:

TEKLAB, INC received 2 samples on 10/21/2019 12:15:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19101437
Report Date: 28-Oct-2019

This reporting package includes the following:

Client: RJN Group **Work Order:** 19101437

Client Project: NPDES/15-3069 ESTL **Report Date:** 28-Oct-2019

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon
B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit
E -	Value above quantitation range
H -	Holding times exceeded
I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits
M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit
R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits
T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19101437
Report Date: 28-Oct-2019

Cooler Receipt Temp: 12.8 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: RJN Group **Work Order:** 19101437

Client Project: NPDES/15-3069 ESTL **Report Date:** 28-Oct-2019

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2020	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2020	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2020	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2020	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2020	Collinsville
Arkansas	ADEQ	88-0966		3/14/2020	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Indiana	ISDH	C-IL-06		1/31/2020	Collinsville
Kentucky	KDEP	98006		12/31/2019	Collinsville
Kentucky	UST	0073		1/31/2020	Collinsville
Louisiana	LDPH	LA016		12/31/2019	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Tennessee	TDEC	04905		1/31/2020	Collinsville

Client: RJN Group
Work Order: 19101437
Client Project: NPDES/15-3069 ESTL
Report Date: 28-Oct-2019
Lab ID: 19101437-001
Client Sample ID: Landsdowne
Matrix: AQUEOUS
Collection Date: 10/21/2019 9:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	10		**< 10**	CFU/100ml	10	10/21/2019 14:04	R268434
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	10/24/2019 12:55	R268617
EPA 600 351.2								
Total Kjeldahl Nitrogen (as N)	NELAP	1.0		**1.6**	mg/L	1	10/22/2019 11:45	158539
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.0		**3.2**	mg/L	1	10/25/2019 0:00	R268591
EPA 600 353.2 R2.0 (TOTAL)								
Nitrogen, Nitrate-Nitrite (as N)	NELAP	0.500		**1.61**	mg/L	10	10/22/2019 20:48	R268472
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**0.346**	mg/L	1	10/22/2019 11:44	158536
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**37**	mg/L	1	10/24/2019 15:06	R268558
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	4		**29**	mg/L	1	10/25/2019 23:07	R268657

Client: RJN Group
Work Order: 19101437
Client Project: NPDES/15-3069 ESTL
Report Date: 28-Oct-2019
Lab ID: 19101437-002
Client Sample ID: Schoenberger
Matrix: AQUEOUS
Collection Date: 10/21/2019 9:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**1500**	CFU/100ml	100	10/21/2019 14:04	R268434
EPA 1664A								
Hexane Extractable Material	NELAP	5		**< 5**	mg/L	1	10/24/2019 12:56	R268617
EPA 600 351.2								
Total Kjeldahl Nitrogen (as N)	NELAP	1.0		**< 1.0**	mg/L	1	10/22/2019 12:18	158540
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.0		**5.3**	mg/L	1	10/25/2019 0:00	R268591
EPA 600 353.2 R2.0 (TOTAL)								
Nitrogen, Nitrate-Nitrite (as N)	NELAP	1.00		**5.32**	mg/L	20	10/22/2019 20:50	R268472
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**0.555**	mg/L	1	10/22/2019 12:17	158537
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6	R	**15**	mg/L	1	10/24/2019 15:18	R268558
Sample and Duplicate RPD meet the SOP QC criteria for low level results. Data is reportable.								
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	8		**88**	mg/L	2	10/25/2019 23:09	R268657

Receiving Check List

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 ESTL

Work Order: 19101437
Report Date: 28-Oct-2019

Carrier: Anthony Vitale

Received By: KMT

Completed by: Amber M. Dilallo
On: 21-Oct-2019

Reviewed by: Elizabeth A. Hurley
On: 21-Oct-2019

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	12.8
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY pg. ____ of ____ Work order # 19101437

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	RJN Group		
Address:	2000 South 8th St.		
City / State / Zip	St. Louis, MO 63104		
Contact:	Jennifer Gerwitz	**Phone:**	(314) 588-9764
E-Mail:	jgerwitz@rjnmail.com	**Fax:**	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 12.8 °C 2TG1

Preserved in: ☐ LAB ☒ FIELD AH 10/21/19

Lab Notes:

FOR LAB USE ONLY

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Client Comments

NOAA 0.25" 10/21

Project Name/Number	Sample Collector's Name
NPDES/15-3069 ESTL	

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	H2SO4	Na2S2O3	MATRIX: Aqueous	INDICATE ANALYSIS REQUESTED: Chloride	Fecal Coliform	Oil and Grease	Phosphorus	Total Nitrogen	TSS
19101437 001	Landsdowne	10/21/19 9:31am	1	2	1	X	X	X	X	X	X	X
002	Schoenberger	10/21/19 9:51am	1	2	1	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Anthony Wade	10/21/19 12:15		10/21/19 1215

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 53404

AH 10/21/19

CERTIFICATE OF ATTENDANCE

Girthal Clemons

Name

East St. Louis

Organization

has participated in the MS4 training that included “Annual Report Preparation” and “O & M Manuals” presented by Jennifer Gerwitz of RJN Group held at the Shiloh Senior Center located at 1 Park Drive in Shiloh, Illinois on **February 28, 2019** and is awarded **1** PDH

Jennifer Gerwitz

Jennifer Gerwitz
Project Engineer
RJN Group, Inc.

rjngroup

The Choice for Collection System Solutions

CERTIFICATE OF ATTENDANCE

Sam Swanson

Name

City of East St. Louis

Organization

has participated in the MS4 training that included "Reducing Road Salt Use" presented by Danelle Haake from St. Louis University, Annual Reports, and Visual Water Sampling Training presented by Jennifer Gerwitz of RJN Group held at the Shiloh Senior Center located at 1 Park Drive in Shiloh, Illinois on **May 2, 2019** and is awarded **1** PDH

Jennifer Gerwitz

Jennifer Gerwitz
Project Engineer
RJN Group, Inc.

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Engineering infrastructure for tomorrow